

Trying 3106016892...Open

Welcome to STN International! Enter x:x
LOGINID:sssptal644pnh
PASSWORD:
TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2	Sep 29	The Philippines Inventory of Chemicals and Chemical Substances (PICCS) has been added to CHEMLIST
NEWS	3	Oct 27	New Extraction Code PAX now available in Derwent Files
NEWS	4	Oct 27	SET ABBREVIATIONS and SET PLURALS extended in Derwent World Patents Index files
NEWS	5	Oct 27	Patent Assignee Code Dictionary now available in Derwent Patent Files
NEWS	6	Oct 27	Plasdoc Key Serials Dictionary and Echoing added to Derwent Subscriber Files WPIDS and WPIX
NEWS	7	Nov 29	Derwent announces further increase in updates for DWPI
NEWS	8	Dec 5	French Multi-Disciplinary Database PASCAL Now on STN
NEWS	9	Dec 5	Trademarks on STN - New DEMAS and EUMAS Files
NEWS	10	Dec 15	2001 STN Pricing
NEWS	11	Dec 17	Merged CEABA-VTB for chemical engineering and biotechnology
NEWS	12	Dec 17	Corrosion Abstracts on STN
NEWS	13	Dec 17	SYNTHLINE from Prouis Science now available on STN
NEWS	14	Dec 17	The CA Lexicon available in the CAPLUS and CA files
NEWS	15	Jan 05	AIDSLINE is being removed from STN
NEWS	16	Jan 29	Webcast on CA LEXICON

NEWS EXPRESS	FREE UPGRADE 5.0e FOR STN EXPRESS 5.0 WITH DISCOVER! (WINDOWS) NOW AVAILABLE
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 13:25:14 ON 06 FEB 2001

=> file medline embase scisearch biosis caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

FULL ESTIMATED COST

ENTRY	SESSION
0.30	0.30

FILE 'MEDLINE' ENTERED AT 13:26:24 ON 06 FEB 2001

FILE 'EMBASE' ENTERED AT 13:26:24 ON 06 FEB 2001

COPYRIGHT (C) 2001 Elsevier Science B.V. All rights reserved.

FILE 'SCISEARCH' ENTERED AT 13:26:24 ON 06 FEB 2001

COPYRIGHT (C) 2001 Institute for Scientific Information (ISI) (R)

FILE 'BIOSIS' ENTERED AT 13:26:24 ON 06 FEB 2001

COPYRIGHT (C) 2001 BIOSIS(R)

FILE 'CAPLUS' ENTERED AT 13:26:24 ON 06 FEB 2001

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

COPYRIGHT (C) 2001 AMERICAN CHEMICAL SOCIETY (ACS)

=> s fagales

L1 143 FAGALES

=> s recombinant

L2 622962 RECOMBINANT

=> s l2 and fagales

L3 46 L2 AND FAGALES

=> s l3 and substitution

L4 0 L3 AND SUBSTITUTION

=> s l3 and amino acid substitution

L5 0 L3 AND AMINO ACID SUBSTITUTION

=> s recombinant allergen

L6 1058 RECOMBINANT ALLERGEN

=> s l6 and V bet1

L7 0 L6 AND V BET1

=> s l6 and Bet v1

L8 6 L6 AND BET V1

=> s l8 and amino acid substitution

L9 0 L8 AND AMINO ACID SUBSTITUTION

=> d l8 all 1-6

L8 ANSWER 1 OF 6 BIOSIS COPYRIGHT 2001 BIOSIS

AN 1999:330765 BIOSIS

DN PREV199900330765

TI How far can we simplify in vitro diagnostics for Fagales tree pollen allergy? A study with three whole pollen extracts and purified natural and

recombinant allergens.

AU van Ree, R. (1); van Leeuwen, W. A.; Akkerdaas, J. H.; Aalberse, R. C.
CS (1) Department of Allergy, C.L.B., Plesmanlaan 125, NL-1066 CX, Amsterdam
Netherlands
SO Clinical and Experimental Allergy, (June, 1999) Vol. 29, No. 6, pp.
848-855.
ISSN: 0954-7894.
DT Article
LA English
SL English
AB Background Current diagnostic tests for Fagales tree pollen allergy are
often composed of mixtures of pollen of birch, alder and hazel. Their
complex composition hampers accurate standardization. Objective The aim
of this study was to investigate whether mixtures of tree pollen extracts
can be replaced by a single pollen species, and whether a single pollen
species can be replaced by a limited number of purified natural or
recombinant major allergens. Methods Sera (n = 1725) were selected on
ground of a general suspicion for inhalant allergy, and tested in a RAST
for birch, alder and hazel pollen. Sera with > 0.5 RU/mL for any of the
three species were tested in a RAST for natural Bet v 1 and Bet v 2 as
well as for recombinant versions of both allergens. Results Specific IgE
antibodies (> 0.3 RU/mL) against birch, alder and hazel were found in
242, 298 and 292 sera, respectively. All sera with a positive RAST for alder
and/or hazel and a negative RAST for birch were low-responder sera on
alder and hazel, only five sera having a RAST value > 1.0 (all < 2.0).
For all sera with a RAST > 0.5 RU/mL (n = 250), the mean of individual
ratio's alder/birch and hazel/birch was 1.02 and 0.54, respectively. Of 223 of
these sera, 63.2% had specific IgE against natural Bet v 1 and 63.7%
against natural Bet v 2. When responses to both allergens were combined
93.7% were positive. The mean ratios Bet v 1 + 2/extract were 1.00, 1.04
and 2.11 in case of birch, alder and hazel, respectively. For 211 sera
the same analysis was performed with recombinant Bet v 1 and Bet v 2. Only
six sera with Bet v 1-specific IgE (all < 0.5 RU/mL) were negative (< 0.3
RU/mL) on recombinant Bet v 1. For Bet v 2, 77/132 sera with specific IgE
to the natural allergen did not react to the recombinant version. Twelve
false-negatives had RAST values > 1.0 RU/mL. The mean of the individual
recombinant/natural ratios was 0.98 for Bet v 1 and 0.38 for Bet v 2 (P <
0.001). The mean ratio rBet v 1 + 2/birch was 0.75 with 17.5%
false-negatives on the combination of **recombinant**
allergens. Conclusion Reliable in vitro diagnosis is possible with
a single tree pollen extract (birch or alder). The same is true for
purified natural Bet v 1 and Bet v 2. A combination of recombinant
molecules is slightly less efficient.

CC Allergy *35500
Pathology, General and Miscellaneous - Diagnostic *12504
Plant Physiology, Biochemistry and Biophysics - Reproduction *51512
Respiratory System - General; Methods *16001
BC Hominidae 86215
IT Major Concepts
Allergy (Clinical Immunology, Human Medicine, Medical Sciences);
Pulmonary Medicine (Human Medicine, Medical Sciences)
IT Diseases
Feagles tree pollen allergy: immune system disease, respiratory system
disease
IT Chemicals & Biochemicals
Bet v1: allergen; Bet v2: allergen

IT Miscellaneous Descriptors
diagnosis
ORGN Super Taxa
Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia
ORGN Organism Name
human (Hominidae)
ORGN Organism Superterms
Animals; Chordates; Humans; Mammals; Primates; Vertebrates

L8 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2001 BIOSIS
AN 1999:330764 BIOSIS
DN PREV199900330764
TI Molecular characterization of Dau c 1, the Bet v 1 homologous protein
from
carrot and its cross-reactivity with Bet v 1 and Api g 1.
AU Hoffmann-Sommergruber, K. (1); O'Riordain, G.; Ahorn, H.; Ebner, C.; Da
Camara Machado, M. Laimer; Puehringer, H.; Scheiner, O.; Breiteneder, H.
CS (1) Department of General and Experimental Pathology, AKH-EBO 3Q,
Wahringer Guertel 18-20, A-1090, Vienna Austria
SO Clinical and Experimental Allergy, (June, 1999) Vol. 29, No. 6, pp.
840-847.
ISSN: 0954-7894.
DT Article
LA English
SL English
AB Background Up to 70% of patients with birch pollen allergy exhibit the
so-called oral allergy syndrome, an IgE-mediated food allergy. The most
frequent and therefore best characterized pollen-fruit syndrome is apple
allergy in patients suffering from tree pollen-induced pollinosis. The
occurrence of adverse reactions to proteins present in vegetables such as
celery and carrots in patients suffering from pollen allergy has also
been
reported. cDNAs for Bet v 1 homologous proteins have been cloned from
celery, apple and cherry. Objective The aim of the study was to identify
Bet v 1 homologues from carrot (*Daucus carota*), to isolate the respective
cDNA, to compare the IgE-binding capacity of the natural protein to the
recombinant allergen and determine the cross-reactivity
to Api g 1 and Bet v 1. Methods Molecular characterization of the carrot
allergen was performed using IgE-immunoblotting, cross-inhibition assays,
N-terminal sequencing, PCR-based cDNA cloning and expression of the
recombinant protein in *Escherichia coli*. Results A 16-kDa protein from
carrot was identified as a major IgE-binding component and designated Dau
c 1. Sequencing corresponding cDNAs revealed three extremely similar
sequences (Dau c 1.1, 1.2 and 1.3) with an open reading frame of 462 bp
coding for 154 amino acid residues. Conclusions Purified recombinant Dau
c
1.2 was tested in immunoblots displaying IgE-binding capacity comparable
to its natural counterpart. Cross-inhibition assays verified the
existence
of common B-cell epitopes present on Dau c 1, Api g 1 as well as on Bet v
1.
CC Allergy *35500
Biochemical Studies - General *10060
Plant Physiology, Biochemistry and Biophysics - Reproduction *51512
Respiratory System - General; Methods *16001
BC Hominidae 86215
IT Major Concepts
Allergy (Clinical Immunology, Human Medicine, Medical Sciences);
Respiratory System (Respiration)
IT Diseases
birch pollen allergy: immune system disease, respiratory system
disease
IT Chemicals & Biochemicals

birch pollen: allergen; cDNA [complementary DNA]; Dau c1 protein:
 allergen, carrot **Bet V1** protein
 ORGN Super Taxa
 Hominidae: Primates, Mammalia, Vertebrata, Chordata, Animalia
 ORGN Organism Name
 human (Hominidae): patient
 ORGN Organism Superterms
 Animals; Chordates; Humans; Mammals; Primates; Vertebrates

 L8 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2001 BIOSIS
 AN 1997:243013 BIOSIS
 DN PREV199799542216
 TI Cross-reacting allergens in tree pollen and pollen-related food allergy:
 Implications for diagnosis of specific IgE.
 AU Scheiner, O. (1); Aberer, W.; Ebner, C.; Ferreira, F.;
 Hoffmann-Sommergruber, K.; Hsieh, L. S.; Kraft, D.; Sowka, S.;
 Vanek-Krebitz, M.; Breiteneder, H.
 CS (1) Dep. Gen. Experimental Pathol., AKH-EBO 3Q, Waehringer Guertel 18-20,
 A-Vienna Austria
 SO International Archives of Allergy and Immunology, (1997) Vol. 113, No.
 1-3, pp. 105-108.
 ISSN: 1018-2438.
 DT Article
 LA English
 AB Background: A number of **recombinant allergens** are by